Translation





PCT

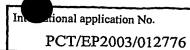
INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 54069	FOR FURTHER ACTION	See Form PCT/IPEA/416				
International application No.	The state of the s					
PCT/EP2003/012776	International filing date (day/month/you 14 November 2003 (14.11.20)					
		03) 15 November 2002 (15.11.2002)				
International Patent Classification (IPC) or n A01N 43/90	ational classification and IPC					
Applicant	BASF AKTIENGESELLSCHA	AFT				
This report is the international prelir Authority under Article 35 and trans	ninary examination report, established l mitted to the applicant according to Ar	by this International Preliminary Examining icle 36.				
2. This REPORT consists of a total of	6 sheets, including this c	Over those				
3. This report is also accompanied by A		over sneet.				
l	to the International Bureau) a total of	sheets as follows:				
sheets of the descr and/or sheets cont Administrative In	aining rectifications authorized by this	ave been amended and are the basis of this report Authority (see Rule 70.16 and Section 607 of the				
sheets which super beyond the disclo Supplemental Box	sure in the international application as	thority considers contain an amendment that goes filed, as indicated in item 4 of Box No. I and the				
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	, containing a sequence dicated in the Supplemental Box Rela	listing and/or tables related thereto, in computer ting to Sequence Listing (see Section 802 of the				
4. This report contains indications relat	ing to the following items:					
Box No. I Basis of the re	port					
Box No. II Priority	Box No. II Priority					
Box No. III Non-establishr	nent of opinion with regard to novelty,	inventive step and industrial applicability				
Box No. IV Lack of unity						
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
Box No. VII Certain defects	Box No. VII Certain defects in the international application					
Box No. VIII Certain observ	ations on the international application					
Date of submission of the demand	Date of comple	Date of completion of this report				
28 May 2004 (28.05.2	004)	6 December 2004 (06.12.2004)				
Name and mailing address of the IPEA/EP	Authorized off	cer				
Facsimile No.	Telephone No.					





BOX NO	. 1	Basis of the report	
1. With other	regard wise in	d to the language, this report is based on the international application in the languaged under this item.	uage in which it was filed, unless
	This which	s report is based on translations from the original language into the following ch is language of a translation furnished for the purpose of:	language,
		international search (under Rules 12.3 and 23.1(b))	
		publication of the international application (under Rule 12.4)	
		international preliminary examination (under Rules 55.2 and/or 55.3)	
jurni.	re not	d to the elements of the international application, this report is based on (report is based on the receiving Office in response to an invitation under Article 14 are referred to annexed to this report):	replacement sheets which have been to in this report as "originally filed"
		international application as originally filed/furnished	
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	a segi	uence listing and/or any related table(s) - see Supplemental Box Relating to Sequ	- Tisting
		and of the state o	dence Listing.
,	The	amendments have resulted in the cancellation of:	
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	H	the description, pages	
	H	the claims, Nos.	
	H	the drawings, sheets/figs	
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4.	mage	report has been established as if (some of) the amendments annexed to this report have been considered to go beyond the disclosure as filed, as it 270.2(c)). the description, pages	port and listed below had not been indicated in the Supplemental Box
		the claims, Nos.	
		the drawings, sheets/figs	
	Щ	the sequence listing (specify):	
		any table(s) related to sequence listing (specify):	
* If iten	ı 4 apı	plies, some or all of those sheets may be marked "superseded."	

/.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability citations and explanations supporting such statement
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Statement			
Novelty (N)	Claims	1-10	YES
	Claims		NO
Inventive step (IS)	Claims	1-10	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-10	YES
	Claims		NO

2. Citations and explanations

Reference is made to the following international search report citations:

D1: WO 98/46607 A

D2: EP 988790 A

D3: WO 99/048367 A

D4: US 5593996 A

D5: US 6268371 A

Novelty

The present application satisfies the requirement of PCT Article 33(1) in conjunction with PCT Article 33(2), because the subject matter of claims 1 to 10 is novel.

The subject matter of independent claim 1 is a fungicidal mixture of orysastrobin, an active ingredient from the class of strobilurins, and a specific fungicidal triazolopyrimidine (hereinafter referred to as TP1) in a synergistically effective amount. The other independent claims 4, 9 and 10 are directed to a method for the control of rice-pathogenic harmful fungi using a mixture of this kind, to seed resulting from such a method and containing such a mixture, and to the use of the two compounds for the production of agents for the control of

rice-pathogenic harmful fungi, respectively.

None of the above citations discloses the specific mixture forming the subject matter of the present application.

D1 discloses inter alia the compound TP1 and its efficacy against rice diseases such as Pyricularia oryzae; D1 also mentions the possibility of its being mixed with other fungicides.

D2 discloses synergistic mixtures of triazolopyrimidines with other fungicides such as the strobilurins kresoximmethyl, azoxystrobin and trifloxystrobin.

D3 discloses synergistic mixtures of orysastrobin with other strobilurins.

D4 demonstrates the efficacy of triazolopyrimidines as used in D2 against *Pyricularia oryzae*.

Lastly, D5 discloses synergistic mixtures of triazolopyrimidines known from D4 with the amide fungicide fenoxanil, especially for the control of rice-pathogenic *Pyricularia* and *Rhizoctonia* fungi.

Inventive step

The present application satisfies the requirements of PCT Article 33(1) in conjunction with PCT Article 33(3), because the subject matter of claims 1 to 10 involves an inventive step.

In the light of the description and the closest prior art in citation D1, the problem addressed by the application can be considered that of providing synergistic mixtures of triazolopyrimidines with other fungicides suitable for the control of rice pathogens, that is to say combining a high level of systemicity with good efficacy against Pyricularia oryzae and Rhizoctonia solani.

The proposed solution is characterised by the use of the specific triazolopyrimidine TP1 in combination with orysastrobin.

The closest prior art document discloses that certain 2,4,6-trifluorophenyl-triazolopyrimidines exhibit very good efficacy against the rice pathogens *Pyricularia* grisea f. sp. oryzae (teleomorph: Magnaporthe gr. f. sp. oryzae) and Rhizoctonia solani, including the compound TP1. Said document also refers to citation D3 as an earlier publication of this general class of substances and notes that the compounds selected in D1 have enhanced systemicity and efficacy against rice diseases, evidently by comparison with the compounds specifically referred to in D3.

Also proposed is a mixture with other fungicides which might lead to a synergistic effect (see the passages in D1 cited in the search report).

However, the compound in the present application has to be specifically selected from the D1 triazolostrobins, and orysastrobin also has to be specifically selected as the other component instead of one of the compounds listed in D1. The additional information in D2 cannot render one or the other obvious, since D2 selects other triazolopyrimidines and does not even mention orysastrobin. Proceeding from D2 mutatis mutandis the triazolopyrimidine would again have to be selected and, moreover, kresoxim-methyl, azoxystrobin or trifloxystrobin would have to be replaced by orysastrobin; there is no

reason to do this, since D2 makes no clear reference to the control of rice pathogens. The additional information in D1 can likewise not render obvious the specific triazolopyrimidine, and certainly not orysastrobin. The proposed solution is therefore not obvious.

Industrial applicability

The subject matter of claims 1 to 10 is considered to be industrially applicable (PCT Article 33(1) and (4)).